CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/CEMENT/2017-18 Date: 23.06.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
*** Sample ID**	:	Cement
Sample Received on	:	22.06.2017
Period of Testing	:	22.06.2017 to 23.06.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

AE-12

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ದೆಪ್ಪನ್ನ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ ಪಶ್ಚಿಮ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/SAND-Gradation/2017-18 23.06.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of Work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	22.06.2017
Date of Testing	:	23.06.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	77.30	60-95	75-100	85-100	95-100
1.18	55.80	30-70	55-90	75-100	90-100
600 Micron	25.80	15-34	35-59	60-79	80-100
300 Micron	11.30	5-20	8-30	12-40	15-50
150 Micron	7.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VIDYARANI P.K.
Technical Manager

AE-12

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Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/AGG/GR/2017-18 23.06.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	22.06.2017
Date of Testing	:	23.06.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.96	95-100	85-100
20	40.96	30-70	0-20
10	18.44	10-35	0-5
4.75	3.32	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VIDYARANI P K.
Technical Manager

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NS/W.No.12/Steel/2017-18

23.06.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	23.06.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	513	13.05	O.K	O.K

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Civil-Tech Consultants & Engineers Bangalore

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Basaveshwaranagar, Bangalore-560 079.

AE 12
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ರಾಜಸಂಧ್ರ ಪಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಶವಂತ. ಪ್ರ. ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/NS/W.No.12/Steel/2017-18

23.06.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	23.06.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	517	13.2	O.K	O.K

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Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/NS/W.No.12/Steel/2017-18 23.06.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	23.06.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	521	13.35	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte, Bangalore.
* Name of work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	23.06.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	523	525	13.45	O.K	O.K

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18

25.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2017	25.07.2017	8.130	475.3	21.12
2	27.06.2017	25.07.2017	8.225	490.2	21.79
3	27.06.2017	25.07.2017	8.350	506.5	22.51

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T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 25.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2017	25.07.2017	8.255	479.6	21.32
2	27.06.2017	25.07.2017	8.305	505.4	22.46
3	27.06.2017	25.07.2017	8.415	513.6	22.83

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A6-12

ನಮೂದಿಸಿದ ಕಾಮಗಾರಿಯ ಅಭಿಯಂತರರು ಪರೀಕ್ಷೆಗೆ ಮಾದರಿಗಳನ್ನು ಕಳುಹಿಸುವಾಗ, ದಾಸರಕಳ್ಳು ಪಲುಯ ಪೈಪುಗಳ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಎಸ್.ಎಂ. ರಸ್ತೆ, ಬಸವೇಶ್ವರನಗರ, ಬೆಂಗಳೂರು.

VIDYARANI P.K.
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Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 25.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2017	25.07.2017	8.130	483.5	21.49
2	27.06.2017	25.07.2017	8.260	492.6	21.89
3	27.06.2017	25.07.2017	8.305	508.7	22.61

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ಬ್ರುಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು

VIDYARANI P.K.
Technical Manager

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
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* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2017	27.07.2017	8.109	478.3	21.26
2	29.06.2017	27.07.2017	8.290	491.6	21.85
3	29.06.2017	27.07.2017	8.332	502.3	22.32

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Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd Cross, 1st A Main Road, Defiance Colony, Bagalagunte,
* Name of the work	:	Construction of RCC Drain at Vani Convent Road Chikkasandra in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/111/2017-18 Dated: 22.06.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2017	27.07.2017	8.299	493.6	21.94
2	29.06.2017	27.07.2017	8.327	510.2	22.68
3	29.06.2017	27.07.2017	8.428	525.6	23.36

*Information is furnished by the Customer/Representative.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Compressive Strength as on	:	28th day
Sample Received on	:	27.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2017	27.07.2017	8.192	493.5	21.93
2	29.06.2017	27.07.2017	8.293	508.5	22.60
3	29.06.2017	27.07.2017	8.355	512.4	22.77

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Job No.: CTCE/BBMP/NS/W.No.12/CSR-06/369e/Cube/2017-18 28.07.2017

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Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2017	28.07.2017	8.292	490.2	21.79
2	30.06.2017	28.07.2017	8.310	513.2	22.81
3	30.06.2017	28.07.2017	8.428	525.6	23.36

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Cross Sectional Area	:	22500 mm^2
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Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2017	28.07.2017	8.109	506.6	22.52
2	30.06.2017	28.07.2017	8.299	513.2	22.81
3	30.06.2017	28.07.2017	8.377	528.9	23.51

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	28.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2017	28.07.2017	8.110	516.5	22.96
2	30.06.2017	28.07.2017	8.293	529.6	23.54
3	30.06.2017	28.07.2017	8.395	542.3	24.10

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